Self-Assessments

on Concept (1.3)

Self-Assessment	10 On Lesson 1

Sei	1-A33633111	ent 10 C	TI LESSOIT I	
(A) Put (✓) or (X):				
1. Eyes send inform	nation through	nerves to the b	rain for processing them.	(
		t the back of ca	t's eyes depends on sound	, t
to detect the pre	e.			(
3. Fishing cat has	excellent night	vision better tha	an human.	(
(B) Give a reason f	or the followin	g:		
The fishing cat's	eyes pupils op	en widly at the	low-light places.	
(A) Choose from co	olumn (B) what	suits it in colu	mn (A) :	
(A)			(B)	
1. Fishing cat	a. depends o	n touch to hunt		
2. Human	b. has no mir	ror-like membra	ane at the back of the eye.	
	c. has a mirro	or-like membrar	ne at the back of the eye.	
	1		2	
(B) Give a reason f	or the followin	a :		
5			t a source of light.	
Choose the correct	answer '			
		ror-like membr	ane like which is found in f	ishina
0.50			e correct, except that huma	
eyes				
a. seem to glow	at night.			
b. have excellen				
c. don't need nig				
d. need a strong				
-			human's eyes pupi	ils.
a. equal to	b. smaller than		than d. wider than	
3. Which of the follo	owing animals h	nas the ability to	fly but can't see clearly at	night '
a. Fishing cat.	b. Snake.	c. Bat.	d. Fennec fox.	

4. All the following ha. owls.c. panther chame		ral adaptation in their ey b. fishing cats. d. bats.	yes, <u>except</u>	
Self	f-Assess	ment (11) till Le	sson 2	
1 (A) Put (✓) or (X):				
	een ball ins	ide a transparent glass	box.	()
2. Opaque objects a	allow light to	pass through and we o	an see objects	
through them.	e 3.e			()
In a completely d opaque objects c	19700	e can see the transpare	ent objects but	()
				()
(B) Give a reason for				
You can see clea	rly through	air.		
(A) Chaosa from so	lumn /D\ w/	hat cuits it in column (A	\.	
(A) Choose from Co	iumin (b) wi	hat suits it in column (A	.).	
(A)	600 to 60	(B)		
1. Water	a. It is an o	paque material, that reflec	cts light in different di	rections.
2. Glass	b. It is a so	ource of light energy.		
3. Wood	c. It is a tra	ansparent material that is	s used in making wi	ndows.
	d. It is a tra	ansparent liquid materia	ıl.	
1		2	3	
(B) Cross out the od	ld word :			
1. Mirror – Cloth – F		od sheet.		()
2. Wood door – Boo				()
				,
B Look at the opposi		nen answer	Gla	ss cup
the questions below		ne other side of cup?		ins water
,=	100			
2. From this activity			(a)	
a. water and glas	₹.			
b. water and glas	s are trans	parent objects.		

c. water is an opaque object, while glass is a transparent one. d. glass is an opaque object, while water is a transparent one.

Self-Assessment 12 till Lesson 3

1	(A) Put (V) or (X) :					
	1. Firefly beetles form	different flash p	atterns by using thei	r legs.	()
	2. Speaking is one of	the ways to com	municate with people	e.	()
	3. Light energy not us	ed by humans o	r firefly beetles for co	mmunication.	()
	(B) Give a reason for The wings of fire between them.		an important role	in the commu	nicati	on
2	(A) Correct the under	lined words :				
	1. Changing the flash	E STATE STAT	y beetles is consider			`
	as a <u>structural</u> adap			()
	A cell phone is a de between animals.	vice that is used	in communication	()
	3. Reading is a type of	f communication	that depends on	,		,
	the sense of taste.		·	()
	(B) How can firefly in:	sects produce lig	ht to communicate	with each other	?	
3	Choose the correct ar	nswer :				
	1is a type of		which is used by hun	nans only.		
		b. Light	c. Echolocation	d. Cell phone		
	2. Which of the following	ng is not a reaso	on for firefly beetles p	oroduce a flash li	ight?	i
	a. To attract a mate		b. For communica	ition.		
	c. To warn off from	predators.	d. To hear in the d	lark.		
	3 is considere	ed a type of com	munication used by a	animals only.		
	a. Writing	b. Echolocation	c. Reading	d. Cell phone		
	4. A firefly is not a bird	, but it is a type	of			
	a. amphibians.	b. lizards.	c. beetles.	d. reptiles.		

Self-Assessment 13 till Lesson 4

(A) Choose the correct answer:	•
All of the following use light energy	**************************************
a. lighthouses.	b. traffic lights.
c. musical instruments.	d. firefly beetles.
2. Some living organisms can use light	ht energy in communication such as
a. humans only.	b. firefly beetles only.
c. humans and firefly beetles.	d. bats and firefly beetles.
3. The is the only living organis communicate with each other.	m that can use language and speech to
a. whale b. owl	c. firefly beetles d. human
(B) Give a reason for the following:	
In cats' eyes the mirror-like membra dark room.	ane cannot make its function in a completely
(A) Put (🗸) or (X) :	
 People who are lost in the desert of of rescue helicopters 	can use mirrors to attract the attention (
2. Writing is a type of communication	that is used by human only. (
3. Musical instruments cannot be use	ed to send codes for communication. (
(B) What happens if ?	
The structure of fishing cat's eyes a	are like that of human's eyes.

3 Complete the following table using the words below:

(communicate - eyes - flash patterns - light reflection - bodies - hunt chemical reaction - mirror - like membrane)

Fishing cats	Firefly beetles
There is a special structure known as a presents at the back of	They produce light, due to the occurrence of a inside
their	their
2. The special structure of sight causes to collect more light,	They use their wings to form different that help them
and helps them to at night.	toat night.

Model Exam 1



on Concept (1.3)

Total	mark
<u> </u>	5

1 (A) Choose the correct answer:		(5 mai	rks)
1 can communicate by displa	aying light.		
	o. All plants		
c. All plants and animals	d. Humans and some animals		
2. Each of human and fishing cat,			
a. has a mirror-like membrane in	their eyes.		
b. has an excellent night vision.			
c. has two eyes adapted for vision	n.		
d. becomes more active at night.			
3. Which of the following communicat	tions depends on the sense of sight only?		
a. Watching TV.	o. Flashing lights of fireflies.		
c. Echolocation.	d. Using the cell phone.		
4. Painted surface the incoming	ng light rays.		
a. absorbs only	o. reflects only		
c. absorbs and reflects	d. allows to pass		
(B) Give a reason for the following	:		
You can see an object placed bel	nined a glass cup.		
2 (A) Put (✓) or (X):		5 mai	rks)
1. Transparent objects don't allow lig	ght to pass through them.	()
2. Human has huge eyes like fishing	cat to gather and reflect any light available) . ()
3. Nocturnal animals have bigger ey	es than humans.	()
4. Human can see in dim light as we	ell as in bright light if his eyes contain		
a mirror-like membrane.		()
(B) What happens if ?			
Light falls on a rough surface.			

2. Flashlight – The moon – Mirror.

3	(A) Complete the following sentences :	(5 marks)
	 The is the main control center in humans and animals bodies, are considered the organ of sight in their bodies. 	while
	2. Fishing cats depend on the sense of in weak light levels, while complete darkness they depend on the senses of and	e in
	3. In the eyes of animals, there is a mirror-like membrane that	light.
	4. Paper and a piece of cloth are considered surfaces that diffus energy.	e or scatter
	(B) Cross out the odd word:	
	1. Fire – Candle – The moon. ()

(.....)

Model Exam 2

on Concept (1.3)

Total	mark
1	5

1. The mirror-like membrane of a. inside the lungs. c. inside the stomach. 2. Light travels in lines in a. circular b. curved 3. Reading and writing are coma. plants b. humans 4. Sense organs collect informatical and are tanding.	the fishing cat is b. at the bac d. at the bac the form of wave c. zigzag mon types of cor c. animals	c of the eye. c of the brain. es. d. straight mmunication in world d. insects		
understanding, a. legs b. stomach	c. brain	d. hands		
(B) Give a reason for the follow The fishing cat's eyes seem		k.		
 (A) Complete the following se Human can see objects whice Rough materials reflect light A group of firefly beetles can of another group to commune Ears of humans detect	h give off their ow than smoo change their ow icate. . energy, while th	th materials. n to match the flash percent of the sectors	patter	ht.
3 (A) Put (✓) or (X):			(5 mai	rks)
1. Cats have excellent night vis			()
2. Mirror reflects most of incom	80M V09	fall on it.	()
3. Different languages have sin		inication between enimals	()
4. A cell phone is a device that (B) Write the scientific term of 1. Materials that allow light to p	each of the follo	wing :		
2. The sense organ of light		()

Self-Assessments

on Concept (2.1)

2. E 3. Y (B)	Engineers use the same i	of fire extinguishers,	
2 (A)	Choose from column (B)	what suits it in column (A) :	
	(A)	(B)	
	1. Normal engine	a. is used in stopping both of the	
	2. Jet engine	Shockwave truck and rockets.	
	3. Parachute	b. is used in moving a normal truck.	
		c. is used to stop a normal truck.	
		d. is used in moving the Shockwave truck.	
	1	2	
	Which is faster, a normal (Give a reason for your a	truck or the Shockwave truck ?	
	(Give a reason for your a		
3 This	(Give a reason for your a	of the most powerful and fastest trucks in the world:	

Self-Assessment 15 till Lesson 2

(A) Choose the correct answer:	
1. A book is placed on a table is affected by	
a. gravity pulling force only.	
b. table pushing force only.	
c. table pulling force and gravity pushing force.	
d. table pushing force and gravity pulling force.	
2. When you sit on a chair which of the following sentences is correct	?
a. gravity pulling you upward.	
b. gravity pulling you downward.	
c. chair pulling you upward.	
d. chair pushing you downward.	
3. We can see all the following motions, except	
a. the rotation of Earth around the Sun.	
b. a person crossing the road.	
c. a person riding a bicycle.	
d. a person swimming in the sea.	
(B) What happens if ?	
The pulling force of one of the two teams in tug-of-war game becor than the other team.	nes greater
(A) Correct the underlined words :	
1. To move up any object from the ground, the pulling force of your	
hand must be smaller than the pulling force of the gravity.	()
2. In tug-of-war game, the winner team is the team with the <u>weaker</u> fo	
	()
3. You can stop the ball that is thrown toward you by the <u>pulling</u>	,
force of your hands against the ball movement. (B) Give a reason for the following:	()
Parachutes are used in the Shockwave truck and rocket.	
i arachutes are used in the Shockwave truck and focket.	

Revision

Concept 1.3 Light and Sight

energy a	ffects the sensory	receptors in the	eyes, causing
vision.			
a. Sound	b. Kinetic	c. Light	d. Magnetic
The organ respo	onsible for the sen	se of sight is the	in communication and the second
a. ears	b. tongue	c. nose	d. eyes
Each of the follo	wing is considered	d a source of light	, except
a. fire	b. the Sun	c. the lamp	d. the eye
Which of the foll	owing is a source	of light?	
	b. Our eyes		d. Mirror
The eyes of noc	turnal animals are	the humo	ın eye.
a. smaller than	b. bigger than	c. the same as	d. narrower than
	s and owls		
a. can swim		b. are nocturnal	
c. can fly		d. can rotate the	eir eyes
Humans have _	eyes than n	octurnal animals.	- Laurence
a. bigger	b. smaller		d. sharper
The pupils of no	octurnal animas a	pen humai	ns' pupils.
a. wider than	b. similar to	c. narrower than	d. shorter than
9 The eyes of	glow in the do		
u. Data	b. cats	c. penguins	
10 What feature of	f light helps you se	ee yourself in the n	nirror?
	b. Ray length	c. Shortness	d. Reflection
11 Light travels in			deiroular
a. curved	b. straight		d. circular
The state of the s	ollowing material o	does not form a sl	nadow when ligh
falls on it?	b. Glass	c. Carton	d. Tree
a. Wood	D. Gluss		e Prim. 4 - First Term 79

The Revision		
13 Which of the following allows li	aht to pass throu	igh it?
a. Rock b. The moon		
12 A mirror makes the falling light		7
a. pass through it	h reflect in	different directi
C. reflect in the same allowed a	b. reflect in c	different direction
c. reflect in the same direction	d. diffuse like	indi or rough surf
is/are considered from	transparent obje	cts.
a. Metals b. Lenses	c. Mirrors	d. Wood
16 All the following are transparen	t materials, excep	ot
b. air	c paper	d lenses
the following materials are	opaque, except	
b, the human h	oduc water	d iron
when light falls on a dark surface	<u>`</u> e	
and a dosorbs the light	h light nacce	s through it
and is relidicted	d nothing ha	nnonc
ong is not a bird, but it is a ti	ne of	
D. lizards	c hootles	al accusti
20 Changing the pattern of lighting adaptation(s)	up in a firefly is	u. reptiles
adaptation(s)	op in a firefly is a	n example of
a. structural and behavioral	b physical	
c. structural		d behavioral
21 produce a chemical	d. behavioral	
a. Butterflies	reaction inside the	neir bodies.
c. Houseflies	b. Fireflies	
	d. Owls	
22 Raising your thumb up or lowerin a. colors	g it down is a kind	d of
C. Waves	b. codes	
	d. lights	
Complete the following senter	ices using the	Morda I
The state of the s		
1) The eye pupils of owls open	than the eye	ounils of house
		narrower - wider)
2 is from the sources of light		The moon - Fire)
Science Prim. 4 - First Term		The moon file)

3 Air and water are materials and you can see things the	rou	gh
them. (transparent - op	paqu	je)
Smooth surfaces reflect light in direction(s).		
(the same - dif	fere	nt)
5 Light does not pass through matter. (transparent - or	oaqu	Je)
6 is from the opaque objects. (Carton -	Gla	SS)
7 When light is scattered from a surface in different directions, the	nis	
surface is (rough - sr		th)
8 The different languages are considered as (codes -	ligh	ts)
Put (/) or (x):		
Both humans and animals need a light source to see.	()
2 The human eyes can see in the dark clearly.	()
3 Humans can see in dim light better than in bright light.	()
The moon is considered a light source.	()
5 All nocturnal animals have excellent night vision.	()
6 Nocturnal animals have eyes that are bigger than the human	eyes	S.
cross out the odd went:	1)
7 Some animals can see clearly at night, such as a wild cats.	()
8 The fishing cat can't hunt in the dark.	()
9 Cats have excellent night vision, while bats don't.	()
10 Wood is a transparent object that allows light to pass through	it. ()
11 The wooden board reflects less light than the mirror.	()
12 The opaque materials do not let the light pass hrough.	()
13 Shadow is formed when light hits a transparent object.	()
14 Polished surfaces, as mirrors, reflect light rays in the same dire	ction	1.
	()
15 The light reflection depends on the smoothness of the objects' su	ırfac	ce.
opaquo materiala.	()
16 If I can see my face clearly on a surface, this means that it is		,
a smooth, shiny surface.	()
Science Prim. 4 - First Ter	m 0 8	10-

Final Revision
17 A written language helps people communicate. (18 Fireflies can communicate with each other using sound energy. (19 Humans use light to communicate, such as using traffic lights. (20 In order for the code to be translated, the brain must identify it. (21 Red and green traffic lights are codes.
Write the scientific term:
1 It's the visible form of energy that travels in the form of waves. 2 It's the organ that is affected by light and is responsible for sight. 3 They're objects that emit their own light. 4 It's a tool used by people, and it works as the eyes of fishing cats at night. 5 It's a type of wild cat that has eyes that glow at night. 6 They're materials that allow light to pass through. 7 They're materials that don't allow light to pass through. 8 They are materials that reflect the light rays in one direction. 9 They are materials that diffuse light in different directions. 6 Cross out the odd word:
 Lenses - Air - Brick - Water Sun - Moon - Fire - Candle Wood - Glass cup - Book - Wall Paper - Wood - Cloth - Mirror Classify the following materials into transparent and opaque materials:
1 A chair made of wood: 2 An aluminum pot: 3 Air: 4 Glasses of glass: Classify the following materials into transparent and opaque materials:
(Rock - Glass - Window)
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Classify the following materials into smooth and rough materials:

(Mirror - Cloth - Metal - Wood)

Choose from column (A) what suits it in column (B):

Column (A)

- 1 The Sun
- 2 Shadow
- 3 The moon
- 4 Smooth surfaces

Column (B)

- a. reflect light rays in one direction.
- b. is formed when the light strikes a human body.
- c. is a source of light.
- d. is shiny but is not considered a source of energy.







Column (A)

- 1 Sight
- 2 Light
- 3 The mirror-like membrane

Column (B)

- a. is the visible form of energy that is transmitted in the form of waves.
- b. is a structural adaptation in the eyes that provides some animals with better vision at night.
- c. is the sense that helps us see.





Column (A)

- 1 Rough surfaces
- 2 Light travels in
- 3 Whatching TV
- 4 Fireflies

Column (B)

- a. is a type of communication for humans only.
- b. light up their wings to attract a mate.
- c. diffuse light in different directions.
- d. straight lines.





Final Revision Look at the path of the light rays in pictures (A) and (B). - Determine which of the two objects is opaque and which is transparent. (A): (B): Which of the following surfaces represents the reflection of light rays from wood and what is the reason? Your friend wants to prevent the light from entering his room. Suggest him some materials that he can use on the window to prevent the light from entering his room.

Give reasons for:

- 1) The moon is not considered a source of light.
- 2 A candle is considered a source of light.
- 3 Nocturnal animals can see better than humans at night.
- A cat's eyes glow in the dark.
- 5 The eyes of humans do not glow like cats in the dark.
- 6 You can see an object placed behind a glass cup.
- 7 A shadow is formed when light falls on an opaque object.
- 8 None of the light energy passes through the opaque objects.

What happens if:

- 1) Light falls on a book?
- 2 Light falls on a rough surface?

Revision

Concept 2,1

Starting and Stopping

1 When an object is in motion, this	means that its	changes.
a. color b. shape	c. size	d. position
2 When you move something towo	rds you, this repr	resents
a. pushing force b. light energy	c. pulling force	e d. sound energy
3 When you sit on a chair, the force	ce of gravity is	and holding
you on the chair	oiche a train	
a. pulling you upward	b. pulling you	downward
c. pushing you upward	d. pushing you	
Push or pull actions are considered	ed types of	
a. forces b. devices	c. energies	d. adaptations
5 The force that pulls the objects d	own towards the	center of the Earth
is force.	tis moving to the	
a. gravity b. pushing	c. air	d. wind
6 The force that occurs when an o	bject rubs agains	st another object is
calledforce.		ffirena aurea
a. pull b. push	c. gravity	
7 You can see the movement of a	all the following a	objects, except the
movement of		
a. a flying airplane	b. a running horse	
c. sea waves	d. the planet E	
8 The force that slows down (decrea		
a. push b. gravity	c. friction	d. pull
9 is the ability to do work.		d. Pull
a. Energy b. Force	c. Push	

o Final Revision	
10 All the following are examples of page 2. pulling the rope c. opening the desk's drawer	b. kicking a ball d. lifting up your bag
 When a body moves forward, the a. the position of the body c. the mass of the body Objects need a force to move, this a. pushing only c. pushing and pulling together When a ball stands on the ground on it are a. unbalanced b. balanced 	b. the size of the body d. Earth's gravity force is represented in b. pulling only d. the Earth gravity only d without moving, the forces acting
In the following figure, the body is	c. pushing it up d. not equal
Smaller Force	Greater
 a. balanced forces and is moving b. forces and is moving to the left c. unbalanced forces and is movin d. unbalanced forces and is movin 	g to the right
15 The energy gained by a ball whe energy. a. potential b. kinetic	But to Lond
2 Complete the following senten the brackets:	ces using the words between
1) The car slows down its speed whe	n it runs out of fuel, as a result of
2 The forces makes the state	(gravity – friction) tic object move. (balanced – unbalanced)
3 The force that pulls things down is	

*

When playing the tug-of-war game, if each team pulls the rop	e w	ith
equal force, the forces are (balanced - unbala	nce	ed)
5 To slow down the speed of a Shockwave truck, the drivers use		
parachutes.	5 -	3)
Put (✓) or (x):	3	
1) Air resists the motion of a car.	()
2 Gravitational force is an upward pulling force.	()
3 When a pen falls from your hand, the acting force is gravity.	()
When a static body is affected by balanced forces, the body moves	. ()
5 The seesaw moves up and down because the forces that act or	itc	are
unbalanced.	()
6 When the position of the body changes from a fixed point, we co	ın s	ay
that the body moves.	(,
7 The force that slows down or decreases the speed of an ob		is
gravity.	()
8 Gravity pulls objects towards the center of the Earth.	()
9 When a car crashes into a wall, it will not stop.	(-
10 We eat food to gain energy.	(
11 Unbalanced forces cause a change in the object's position.	()
Write the scientific term:		
1 It's the force that pulls objects towards the center of the Earth.		
2 It is a push or pull that is applied to an object making char- position.	ge	its
3 It's the force that arises when objects rub against each other.	1	

When you sit on the chair without moving:

What is the name of the force that pulls you downward?

What happens if: and wowat exago along put and an an a

A boy on a bike stops pedaling?

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its the force that arises when objects all against each